

LV3095

Embedded 2D Barcode Scan Engine



Advantages:

- Seamless substitute for Motorola 955SE for their same bottom screw hole and size.
- Upgrade your scanning application from 1D to 2D directly.
- LV3095 is able to scan mobile phone screen 2D barcode

- **No need to change the mold, saving your huge costs to remake the mold**
- **New starter to prepare for the brand new era of 2D barcode.**

Introduction:

The LV3095 embedded 2D barcode scan engines, armed with a computerized image recognition system, bring about a new era of 2D barcode scan engines.

The 2D barcode decoder chip ingeniously blends new technology and advanced chip design&manufacturing, which significantly simplifies application design and delivers superior performance and solid reliability with low power consumption.

The LV3095 supports all mainstream 1D as well as PDF417, QR Code(Mole1/2, Micro QR), Data Matrix and GS1-DataBarTM(RSS) (RSS-Limited,RSS-14,RSS-14 Stacked and RSS-Expand). It provides an ideal solution for both emerging mobile phone-based barcode applications,like digital coupons, electronic tickets and boarding passes, and traditional applications.

LV3095 can not only quickly identify the barcodes on printed media, but also possesses more excellent performance for LCD Display, mobile phone screen display barcodes. At present, there are more and more barcode applications based on mobile phone, such as discount tickets, electronic tickets, boarding pass,etc. LV3095 is the best solutions for both these new applications and traditional applications.

This compact engine weighs only 4.4 grams and fits easily into even the most space-constrained equipments such as data collectors, meter readers, ticket validators and PDAs. Moreover, the instant power on/off feature along with ultra-low power consumption brings greater efficiency and convenience in barcode scanning.

Features:

- **2D Barcode Decoder Chip:**

The engine armed with the state-of-the-art 2D barcode demonstrates unprecedented reading performance.

- **Two-In-One Design:**

Seamless integration of CMOS image sensor and decoder board makes the engine small, lightweight and easy for integration.

- **High Performance & Ultra-Low Power Consumption:**

The engine can read most 1D and 2D barcodes with a power consumption only one fourth that of a traditional engine.

● **All-Round Scanning Capability:**

It can read barcodes on virtually any medium - paper, plastic cards, mobile phones and LCD displays.

Specification:

Performance	
Image Sensor	752 ×480 CMOS
Illumination	Red LED 625 ±10 nm
2D Symbologies 1D	PDF417QR Code(Model 1/2, Micro)、Data Matrix (ECC200,ECC000,050,080,100,140) Code 128 、EAN-13、EAN-8 、Code 39、UPC-A、UPC-E 、Codabar 、Interleaved 2 of 5、ISBN/ISSN 、Code 93 、UCC/EAN-128 、GS1 Databar,etc
Precision	≥ 5mil
Depth of Field UPC-A (13mil) Code 39 (20mil) PDF 417 (6.67mil) Data Matrix (10mil) QR Code (20mil)	55mm -270mm 50mm -340mm 70 mm-165 mm 55 mm -180 mm 35 mm -275mm
Symbol Contrast	≥ 30%
Scan Angle**	Roll: 360; Pitch: ±50; Skew: ±50°
Field of View	Horizontal 36°; Vertical 23°
Mechanical/Electrical	
Interface	TTL - 232 、USB (HID-KBW、Virtual Serial Port)、DATAPIPE 、HID- POS)
Operating Voltage	3.0 ~ 3.6 VDC
Operating Current Current @ 3.3 VDC Sleep Current	230 mA 40mA
Dimensions	21.17(W) ×14.6 (D) ×11.52(H) mm
Weight	4.4g
Environmental	
Operating Temperature	- 20℃ - +60 °C
Storage Temperature	- 40℃ - +8 0 °C
Humidity	5% - 95% (non-condensing)
Ambient Light	0 ~ 100000 lux (natural light)
Accessories	
EVK3000	Software development board for the LV3095, equipped with a trigger button, beeper and RS-232 & USB interfaces.

RS-232 Cable	Used to connect the EVK3000 to a host device;
Cables	equipped with a power connector.
USB Cable	Used to connect the EVK3000 to a host device.
Power Adaptor	Used to provide power for the EVK3000. Output: DC5V, 2A; Input: AC100~240V, 50~60Hz

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